

10/691,269

***** STN Columbus *****

FILE 'HOME' ENTERED AT 15:46:29 ON 03 FEB 2008

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.05

1.05

FILE 'REGISTRY' ENTERED AT 15:49:20 ON 03 FEB 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 1 FEB 2008 HIGHEST RN 1001383-72-7

DICTIONARY FILE UPDATES: 1 FEB 2008 HIGHEST RN 1001383-72-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

*** YOU HAVE NEW MAIL ***

=>

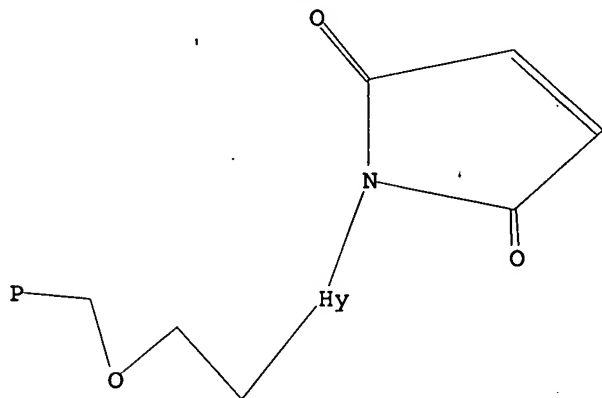
Uploading C:\Program Files\Stnexp\Queries\10691269.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 15:49:53 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 358 TO ITERATE

100.0% PROCESSED 358 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

=>

Uploading c:\Program Files\Stnexp\Queries\10691269.2

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l3 full

FULL SEARCH INITIATED 15:58:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 358 TO ITERATE

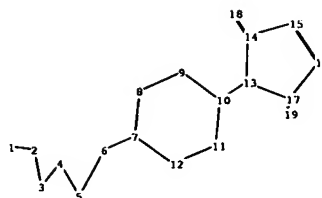
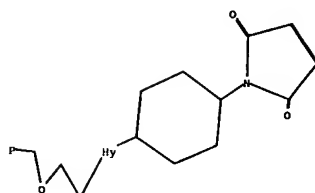
100.0% PROCESSED 358 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L4 0 SEA SSS FUL L3

=>



chain nodes :

1 2 3 4 5 6 18 19

ring nodes :

7 8 9 10 11 12 13 14 15 16 17

chain bonds :

1-2 2-3 3-4 4-5 5-6 6-7 10-13 14-18 17-19

ring bonds :

7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-17 14-15 15-16 16-17

exact/norm bonds :

2-3 3-4 5-6 6-7 7-8 7-12 8-9 9-10 10-11 10-13 11-12 13-14 13-17 14-15 14-18 15-16 16-17 17-19

exact bonds :

1-2 4-5

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS19:CLASS

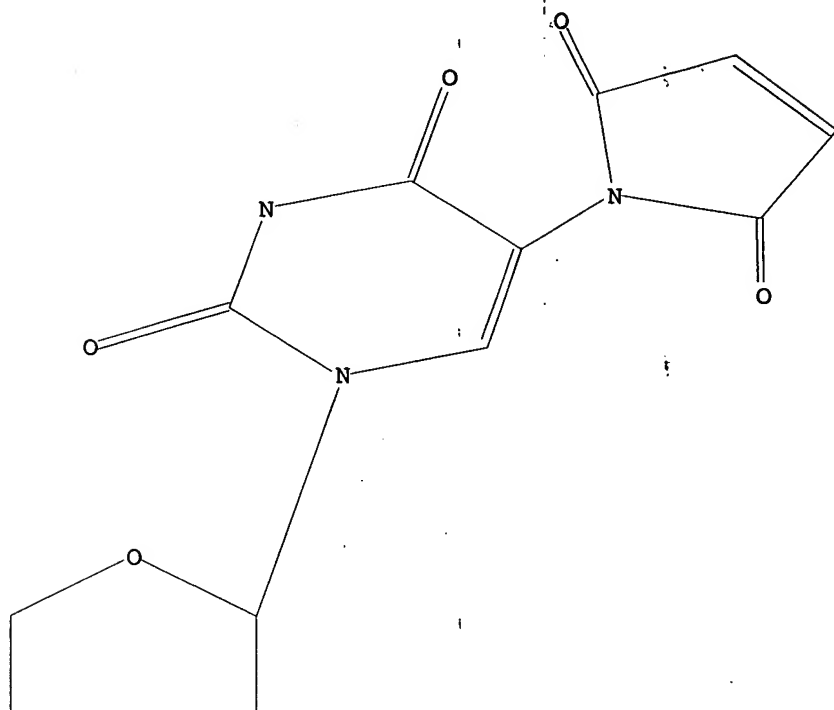
=>
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L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15 full

FULL SEARCH INITIATED 16:04:47 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 164 TO ITERATE

100.0% PROCESSED 164 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L6 0 SEA SSS FUL L5

=>

=>

Uploading c:\Program Files\Stnexp\Queries\10691269.4

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 17 full

FULL SEARCH INITIATED 16:07:24 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 43 TO ITERATE

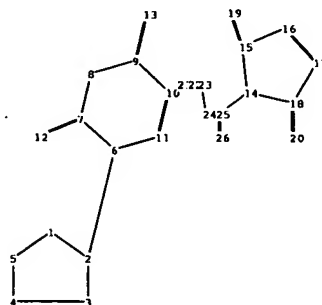
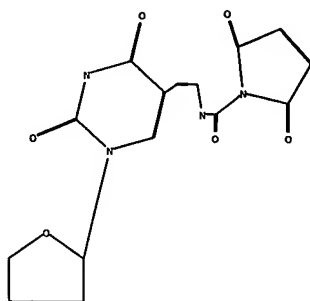
100.0% PROCESSED 43 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L7

=>



chain nodes :

12 13 19 20 21 22 23 24 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18

chain bonds :

2-6 7-12 9-13 10-21 14-25 15-19 18-20 21-22 22-23 23-24 24-25 25-26

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 14-18 14-15 15-16 16-17 17-18

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 14-18 14-15 14-25 15-16 15-19 16-17 17-18 18-20 23-24 24-25 25-26

exact bonds :

10-21 21-22 22-23

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS13:CLASS14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS20:CLASS21:CLASS22:CLASS23:CLASS24:CLASS25:CLASS26:CLASS

=>

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L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 19 full

FULL SEARCH INITIATED 16:10:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 262 TO ITERATE

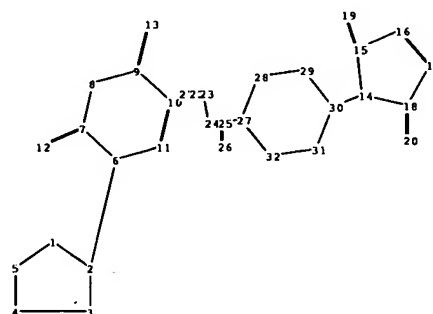
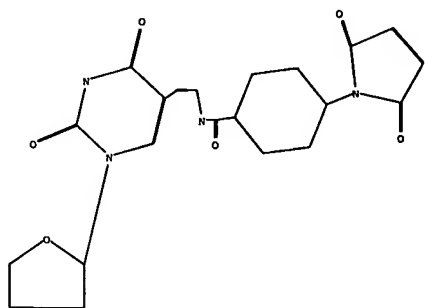
100.0% PROCESSED 262 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L10 0 SEA SSS FUL L9

=>



chain nodes :

12 13 19 20 21 22 23 24 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 27 28 29 30 31 32

chain bonds :

2-6 7-12 9-13 10-21 14-30 15-19 18-20 21-22 22-23 23-24 24-25 25-26 25-27

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 14-18 14-15 15-16 16-17 17-18 27-28 27-32 28-29
29-30 30-31 31-32

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 14-18 14-15 14-30 15-16 15-19 16-17
17-18 18-20 23-24 24-25 25-26 27-28 27-32 28-29 29-30 30-31 31-32

exact bonds :

10-21 21-22 22-23 25-27

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS13:CLASS14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS20:CLASS21:CLASS22:CLASS23:CLASS24:CLASS25:CLASS26:CLASS
27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom

=>

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L11 STRUCTURE UPLOADED

=> d l11

L11 HAS NO ANSWERS

L11 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l11 full

FULL SEARCH INITIATED 16:14:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8 TO ITERATE

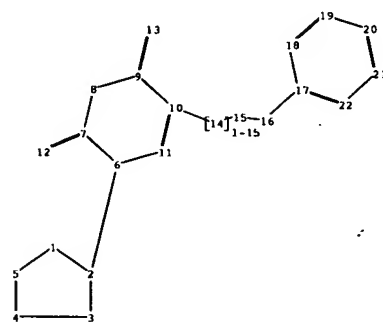
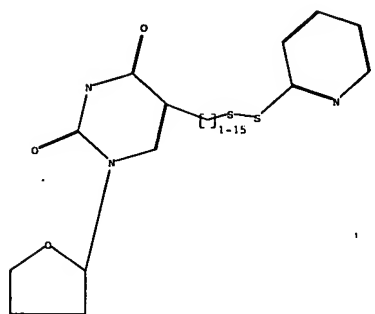
100.0% PROCESSED 8 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L12 0 SEA SSS FUL L11

=>



chain nodes :

12 13 14 15 16

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 17 18 19 20 21 22

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 14-15 15-16 16-17

exact bonds :

10-14

normalized bonds :

17-18 17-22 18-19 19-20 20-21 21-22

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS13:CLASS14:CLASS15:CLASS16:CLASS17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom

=>

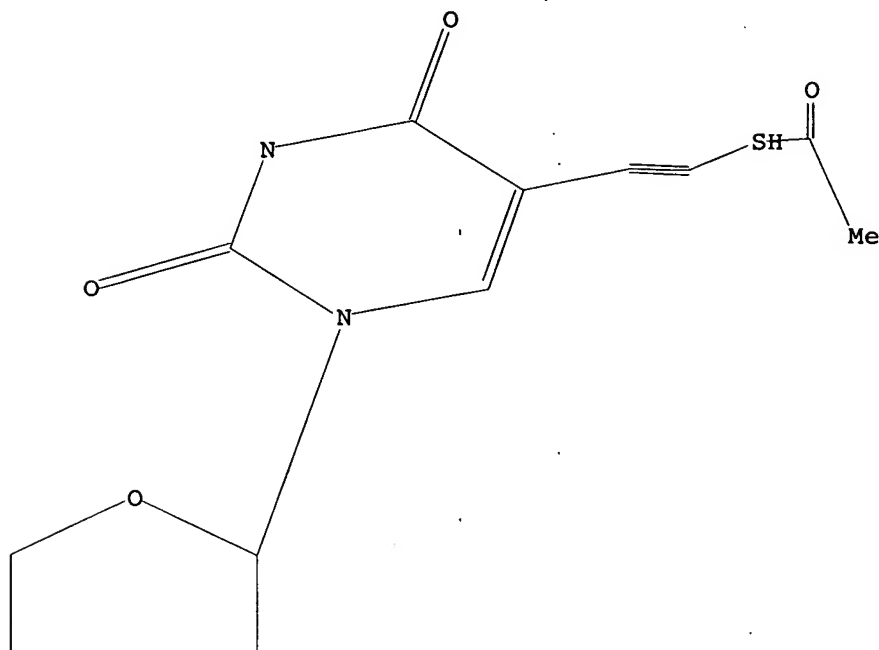
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L14 STRUCTURE UPLOADED

=> d l14

L14 HAS NO ANSWERS

L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l14 full

FULL SEARCH INITIATED 16:24:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L15 0 SEA SSS FUL L14

=>

=>

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L16 STRUCTURE UPLOADED

=> d 116

L16 HAS NO ANSWERS

L16 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 116 full

FULL SEARCH INITIATED 16:28:06 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 215 TO ITERATE

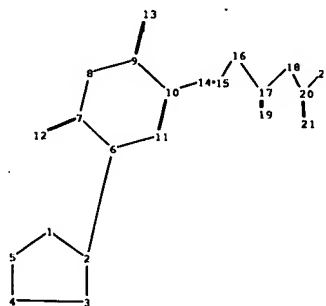
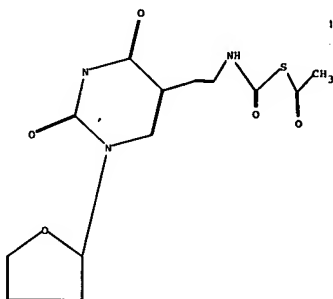
100.0% PROCESSED 215 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L17 0 SEA SSS FUL L16

=>



chain nodes :

12 13 14 15 16 17 18 19 20 21 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17 17-18 17-19 18-20 20-21 20-22

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 15-16 16-17 17-18 17-19 18-20 20-21

exact bonds :

10-14 14-15 20-22

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS13:CLASS14:CLASS15:CLASS16:CLASS17:CLASS18:CLASS19:CLASS20:CLASS21:CLASS22:CLASS

=>

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L18 STRUCTURE UPLOADED

=> d l18

L18 HAS NO ANSWERS

L18 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l18 full

FULL SEARCH INITIATED 16:30:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

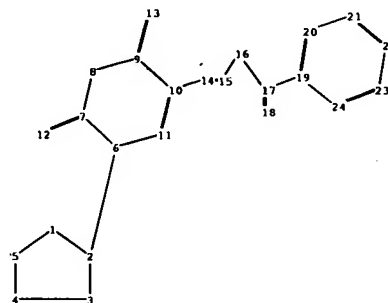
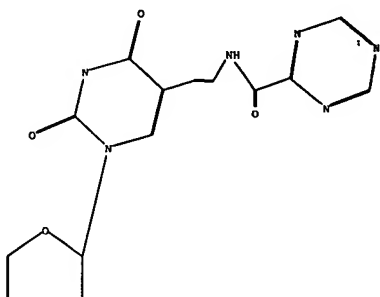
100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L19 0 SEA SSS FUL L18

=>



chain nodes :

12 13 14 15 16 17 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 19 20 21 22 23 24

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17 17-18 17-19

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 19-20 19-24 20-21 21-22 22-23 23-24

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 15-16 16-17 17-18

exact bonds :

10-14 14-15 17-19

normalized bonds :

19-20 19-24 20-21 21-22 22-23 23-24

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

=>

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L20 STRUCTURE UPLOADED

=> d l20

L20 HAS NO ANSWERS

L20 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l20 full

FULL SEARCH INITIATED 16:32:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 20 TO ITERATE

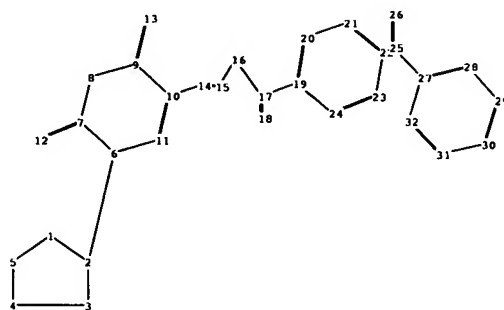
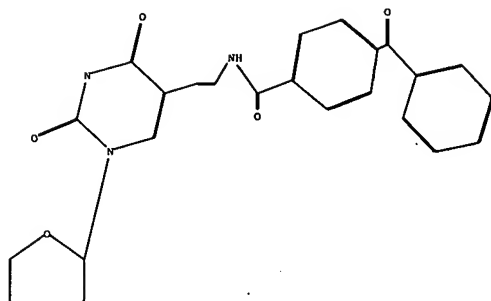
100.0% PROCESSED 20 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L21 0.SEA SSS FUL L20

=>



chain nodes :

12 13 14 15 16 17 18 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 19 20 21 22 23 24 27 28 29 30 31 32

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17 17-18 17-19 22-25 25-26 25-27

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 19-20 19-24 20-21 21-22 22-23 23-24 27-28 27-32
28-29 29-30 30-31 31-32

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 15-16 16-17 17-18 25-26

exact bonds :

10-14 14-15 17-19 22-25 25-27

normalized bonds :

19-20 19-24 20-21 21-22 22-23 23-24 27-28 27-32 28-29 29-30 30-31 31-32

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS
15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS
27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom

=>

Uploading c:\Program Files\Stnexp\Queries\10691269.11

L22 STRUCTURE UPLOADED

=> d 122

L22 HAS NO ANSWERS

L22 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 122 full

FULL SEARCH INITIATED 16:34:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE

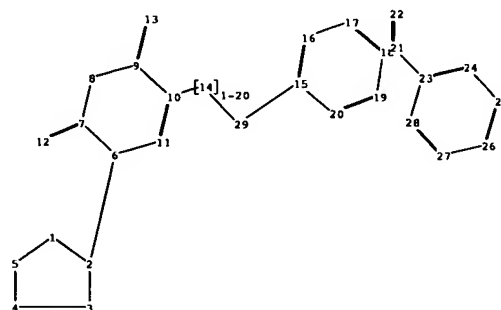
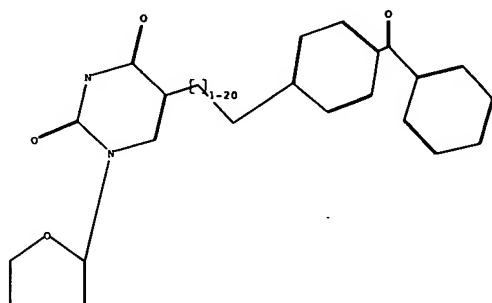
100.0% PROCESSED 61 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L23 0 SEA SSS FUL L22

=>



chain nodes :

12 13 14 21 22 29

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 15 16 17 18 19 20 23 24 25 26 27 28

chain bonds :

2-6 7-12 9-13 10-14 14-29 15-29 18-21 21-22 21-23

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 15-20 15-16 16-17 17-18 18-19 19-20 23-24 23-28
24-25 25-26 26-27 27-28

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 21-22

exact bonds :

10-14 14-29 15-29 18-21 21-23

normalized bonds :

15-20 15-16 16-17 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom
28:Atom 29:CLASS

=>

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L24 STRUCTURE UPLOADED

=> d 124

L24 HAS NO ANSWERS

L24 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 124 full

FULL SEARCH INITIATED 16:39:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 78 TO ITERATE

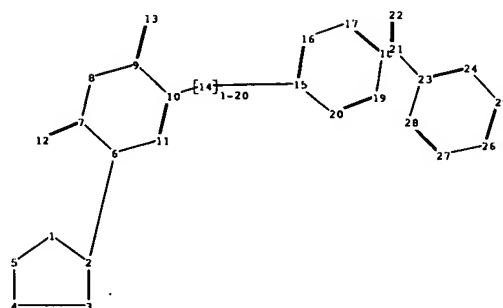
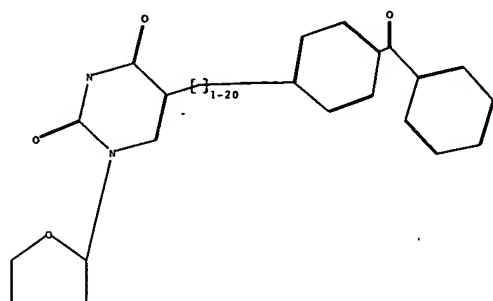
100.0% PROCESSED 78 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L25 0 SEA SSS FUL L24

=>



chain nodes :

12 13 14 21 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 15 16 17 18 19 20 23 24 25 26 27 28

chain bonds :

2-6 7-12 9-13 10-14 14-15 18-21 21-22 21-23

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 15-20 15-16 16-17 17-18 18-19 19-20 23-24 23-28
24-25 25-26 26-27 27-28

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 21-22

exact bonds :

10-14 14-15 18-21 21-23

normalized bonds :

15-20 15-16 16-17 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS13:CLASS14:CLASS
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS21:CLASS22:CLASS23:Atom 24:Atom 25:Atom 26:Atom 27:Atom
28:Atom

PA Stratagene, USA
 SO PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037989	A2	20040506	WO 2003-US33520	20031023
	WO 2004037989	A3	20040805		
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	US 2005003371	A1	20050106	US 2003-691269	20031022
	AU 2003285942	A1	20040513	AU 2003-285942	20031023
PRAI	US 2002-420675P	P	20021023		
	WO 2003-US33520	W	20031023		

AB The invention relates to functionalized nucleotides that permit the covalent linkage of the nucleotides to moieties containing reactive groups complementary to the functional group. More specifically, the invention relates to nucleotides comprising a functional group attached to the nucleobase that permits the covalent attachment of the nucleotides or a nucleic acid comprising such nucleotides to detectable moieties, polypeptides and solid supports. The invention further relates to nucleic acids comprising such functionalized nucleotides, methods of labeling nucleic acids with such nucleotides, and kits comprising such nucleotides. Thus, oligonucleotides were labeled using terminal deoxynucleotide transferase or DNA polymerase and pyridine dithiopropionate-labeled, maleimido methylcyclohexane-labeled, or thioacetyl-labeled dUTP. These modified oligonucleotides were reacted with 2-iminothiolane-modified alkaline phosphatase to generate labeled hybridization probes.

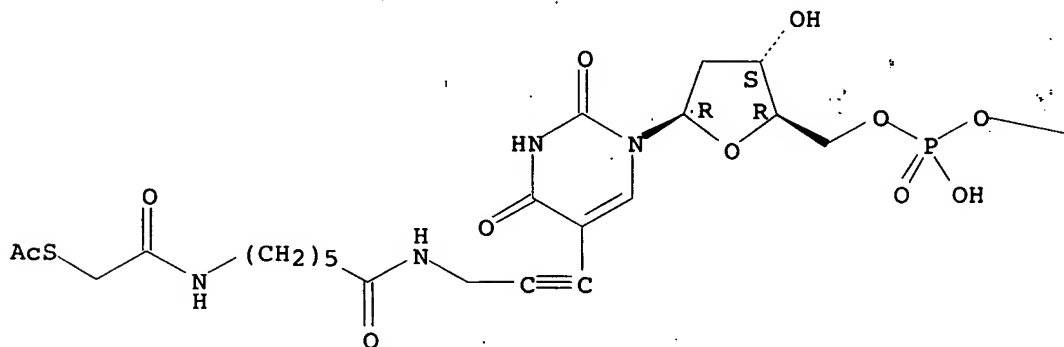
IT 685111-85-7
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (modified nucleotides for labeling nucleic acids and for attaching nucleic acids to surfaces)

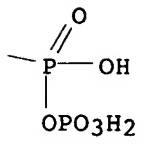
RN 685111-85-7 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 5-[3-[[6-[[[(acetylthio)acetyl]amino]-1-oxohexyl]amino]-1-propynyl]-2'-deoxy- (9CI)
 (CA INDEX NAME)

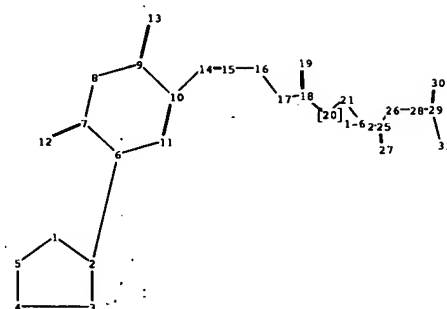
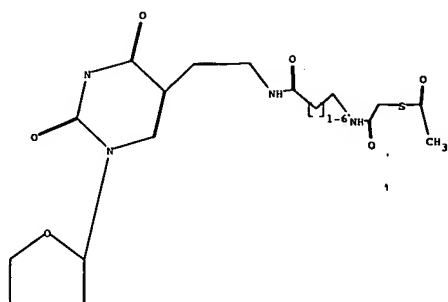
Absolute stereochemistry.

PAGE 1-A





=>



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29 30 31

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17 17-18 18-19 18-20 20-21 21-22 22-25 25-26 25-27 26-28 28-29 29-30 29-31

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 16-17 17-18 18-19 21-22 22-25 25-27 26-28 28-29 29-30

exact bonds :

10-14 14-15 15-16 18-20 20-21 25-26 29-31

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS

=>

Uploading c:\Program Files\Stnexp\Queries\10691269.14

L32 STRUCTURE UPLOADED

=> d 132

L32 HAS NO ANSWERS

L32 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 132 full

FULL SEARCH INITIATED 16:49:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

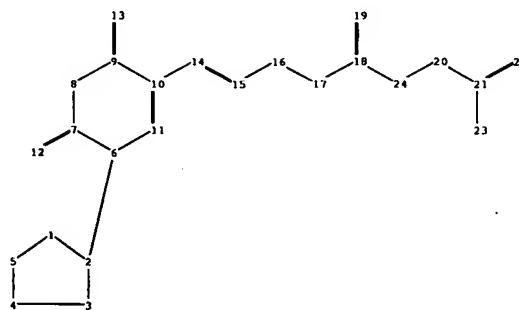
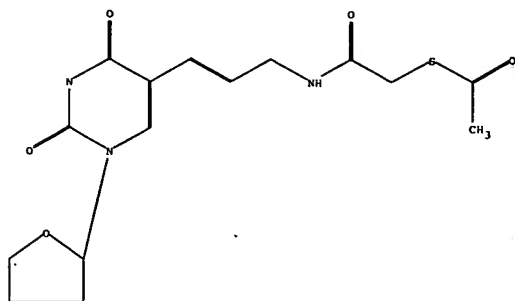
100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L33 0 SEA SSS FUL L32

=>



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

2-6 7-12 9-13 10-14 14-15 15-16 16-17 17-18 18-19 18-24 20-21 20-24 21-22 21-23

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 6-7 6-11 7-8 7-12 8-9 9-10 9-13 10-11 16-17 17-18 18-19 20-21 20-24 21-22

exact bonds :

10-14 14-15 15-16 18-24 21-23

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS